## Answer the following questions and click Record Answers

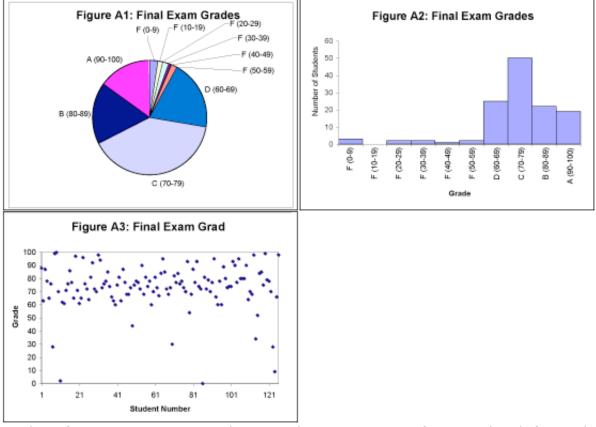
**Don't guess!! "Do not know"** is a perfectly good answer. You will learn the answers to questions like these in your investigation.

1) Cosmic ray flux decreases:  When sun is below the horizon.  during precipitation events.  when barometric pressure is high.  all of the above  do not know
2) Cosmic rays are currently detected by:  Scintillation detectors.  Cerenkov radiation detectors.  photodiodes that measure flourescent light in the sky on moonless, cloudless nights.  all of the above  do not know
3) Cosmic rays typically travel:  at the speed of light.  at nearly the speed of light.  faster than the speed of light.  do not know
4) Cosmic ray muon flux at earth surface is enhanced by:  Ctime dilation for the muon.  Ctime dilation for our clocks.  Clength contraction for us.  Cdo not know
5) The energies of cosmic rays compare to:  a dropped brick.  a truck collision.  a speeding train locomotive.  the Earth in orbit.  do not know

6) Source of data errors in measuring cosmic rays is:

Calibration drift.
Cscintillator light leaks.
_photomultiplier dark current.
Call of the above
Cdo not know
7) Cosmic rays come from:
within our solar system.
Cwithin our galaxy.
beyond our galaxy.
Call of the above
Cdo not know
8) Why do contemporary scientists study cosmic rays?
They do not: they have already answered all the questions about cosmic rays.
They are searching for signs of extraterrestrial intelligence.
They are trying to solve the mystery of the origin of ultra energy cosmic rays.
©none of the above
Cdo not know
9) A local television station displays the weather data for two nearby schools. Alan Shepard H. S. reports a pressure of 29.97 inches of Mercury and Proviso West H. S. reports 30.01 inches. Which is the best way to verify that the difference is real and not some calibration error?
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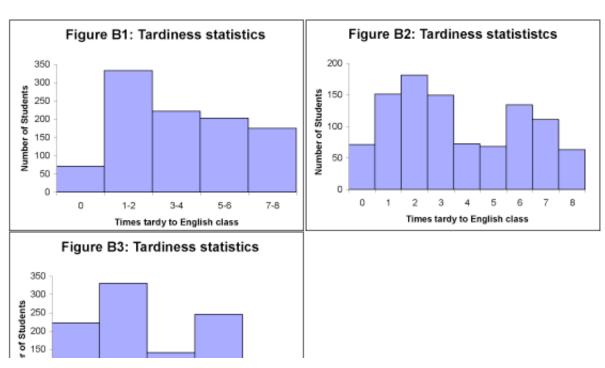
11) Examine Figures A1, A2, and A3, three representations of the data from the new exam.



Which of the three representations provides the most useful graphical information?

- Figure A1, the pie chart
- Figure A2, the histogram
- Figure A3, the scatterplot
- do not know

## 12) Examine Figures B1, B2, and B3, which were all generated from the same data on student tardiness (n = 1,000 students).



Record Answers

Reset Answers